



GP02 - 60

PRV : 6000 Volts
Io : 0.2 Ampere

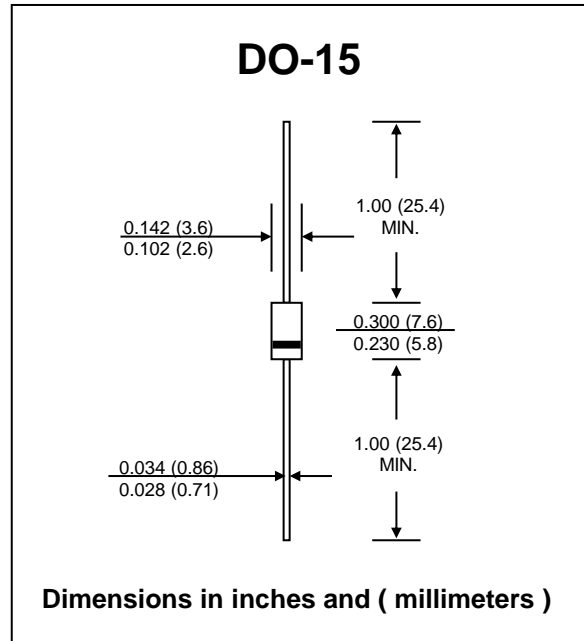
FEATURES :

- * Glass passivated junction
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : DO-15 Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.4 gram

HIGH VOLTAGE GLASS PASSIVATED JUNCTION SILICON RECTIFIER



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

RATING	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	6000	V
Maximum RMS Voltage	VRMS	4200	V
Maximum DC Blocking Voltage	VDC	6000	V
Maximum Average Forward Current 0.375"(9.5mm) Lead Length Ta = 55 °C	IF(AV)	0.2	A
Peak Forward Surge Current 8.3 ms. Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	25	A
Maximum Forward Voltage at 0.2 A	VF	7.0	V
Maximum DC Reverse Current Ta = 25 °C	IR	5.0	µA
at Rated DC Blocking Voltage Ta = 100 °C	IR(H)	50	µA
Typical Reverse Recovery Time (Note 1)	Trr	2.0	µs
Typical Junction Capacitance (Note 2)	CJ	5.0	pF
Typical Thermal Resistance (Note 3)	RθJA	130	°C/W
Junction Temperature Range	TJ	- 65 to + 175	°C
Storage Temperature Range	TSTG	- 65 to + 175	°C

Notes :

- (1) Reverse Recovery Test Conditions : IF = 0.5 A, IR = 1.0 A, Irr = 0.25 A.
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC
- (3) Thermal Resistance from Junction to Ambient at 0.375"(9.5mm) Lead Lengths, P.C. Board Mounted.



RATING AND CHARACTERISTIC CURVES (GP02 - 60)

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

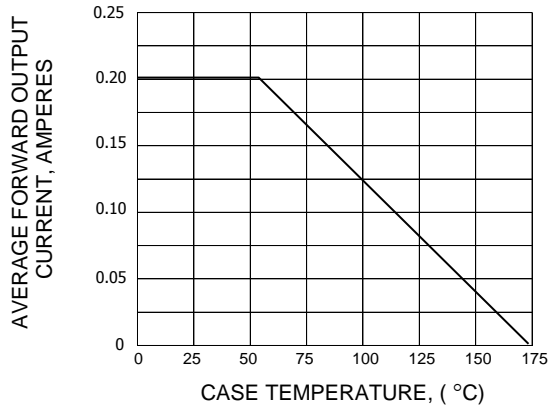


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

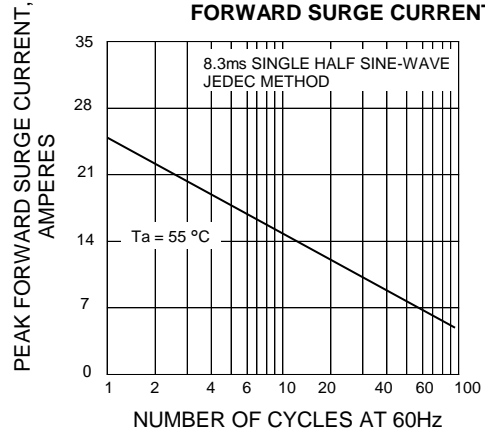


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

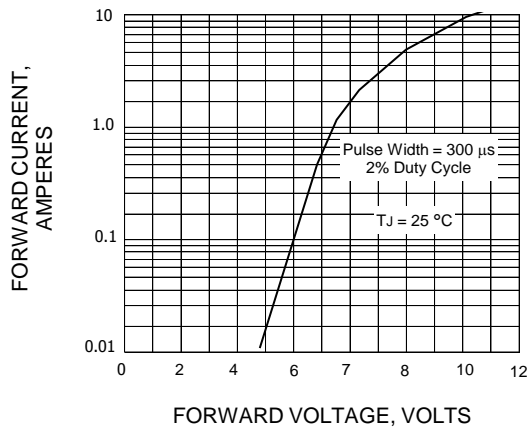


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

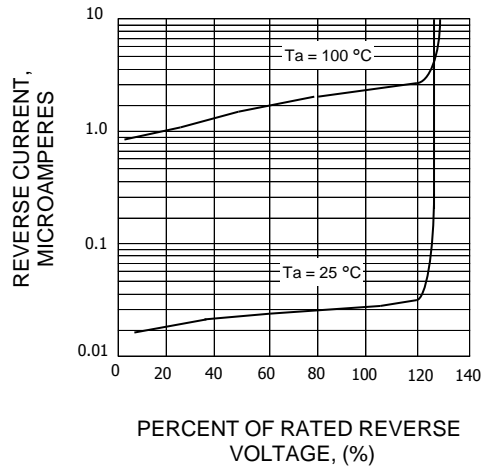


FIG 5 . - TYPICAL JUNCTION CAPACITANCE

